

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

#### **Listing of Claims:**

Claim 1 (Currently Amended):        A load balancing ~~SSL~~ acceleration device, comprising:  
a processor, memory and communications interface;  
a TCP communications manager capable of interacting with a plurality of client devices and server devices simultaneously via the communications interface;  
a secure communications manager to negotiate a secure communication session with one of the client devices;  
an encryption and decryption engine instructing the processor to ~~encrypt~~ decrypt data received via the ~~from a~~ secure communications session and direct the decrypted data ~~it~~ to one of said server devices via a ~~said~~ second communication session; and  
a load balancing engine associating ~~ones~~ each of said client devices with a respective one ~~ones~~ of said servers devices ~~for a communications session~~ based on calculated processing loads of each said server devices.

Claim 2 (Currently Amended):        The device of claim 1 wherein the TCP communications manager provides an IP address of an enterprise to said secure communications manager, and each of said plurality of servers devices is associated with the enterprise.

Claim 3 (Currently Amended):        The device of claim 2 wherein the secure communications manager negotiates a secure communication[[s]] session with each of said plurality of client devices over an open network.

Claim 4 (Currently Amended): The device of claim 3 wherein the TCP communications manager negotiates a separate, open communications session with one of the plurality of servers devices associated with the enterprise for each secure communications session negotiated with the a client devices based on the associations of said client devices to said server devices by said load balancing engines.

Claim 5 (Currently Amended): The device of claim 1~~[[4]]~~ wherein the encryption and ~~encryption~~ decryption engine decrypts the data on a packet level by decrypting packet data received on the communications interface via a the secure communications session to extract a secure record, decrypting ~~decrypts~~ application data from the secure record in the packet data, and outputting the decrypted application data from the secure record to the one of said server devices via the second communication session without processing the application data with an application layer of a TCP/IP stack ~~and maps the data to an appropriate TCP session.~~

Claim 6 (Currently Amended): The device of claim 5 wherein the load-balancing engine selects the second communication session ~~appropriate TCP session is selected by the load-balancing engine.~~

Claim 7 (Currently Amended): The device of claim 1~~2~~ wherein the TCP communications manager responds to TCP communications negotiations directly for an ~~the~~ enterprise.

Claim 8 (Currently Amended): The device of claim 2~~1~~,  
wherein the TCP communications manager receives packets from the client devices, and wherein the TCP communications manager changes a destination IP addresses for each the packets to IP addresses for the a-server devices for each session.

Claim 9 (Currently Amended): The device of claim 8,  
wherein the TCP communications manager maintains TCP communication sessions with the server devices, and  
wherein ~~therein~~ the secure communications manager ~~engine~~ negotiates a secure communication session for each TCP communications session.

Claim 10 (Original): The device of claim 9 wherein the secure communications manager responds to all secure communications with each client device.

Claim 11 (Currently Amended): The device of claim 9 wherein the secure communications manager changes a destination IP address for[[e]] each packet to a server IP address~~for each session.~~

Claim 12 (Currently Amended): A method for performing SSL acceleration of data communications between a plurality of customer devices attempting to communicate with an enterprise having a plurality of servers, comprising:  
providing an intermediate acceleration device enabled for secure communication with the customer devices, wherein the acceleration device has ~~having~~ an IP address associated with the enterprise;  
receiving with the acceleration device communications directed to the enterprise in a secure protocol from one of the customer devices;  
decrypting data packets of the secure protocol with the acceleration device to provide decrypted packet data;  
selecting with the acceleration device at least one of the plurality of servers in the enterprise based on a load calculation including processing sessions of other servers in the enterprise and associating the selected server with a communications session from the one of the clients; and  
forwarding the decrypted packet data from the acceleration device to the selected server of the enterprise.

Claim 13 (Original): The method of claim 12 further including the steps of:

receiving application data from the selected server of the enterprise;  
encrypting the application data received from the selected server; and  
forwarding encrypted application data to the customer device.

Claim 14 (Currently Amended): The method of claim ~~12~~ 13 wherein the step of receiving ~~secure~~ communications directed to the enterprise includes receiving with the device communications having a destination IP address of the enterprise.

Claim 15 (Currently Amended): The method of claim ~~12~~ 14 further including the step of negotiating the secure protocol session with the customer device by responding as the enterprise to the customer devices.

Claim 16 (Currently Amended): The method of claim ~~12~~ 14 further wherein the step of forwarding comprises:

modifying ~~the~~ a destination IP address of data packets from ~~the~~ an IP address associated with the enterprise IP to an IP address for the selected server.

Claim 17 (Currently Amended): The method of claim ~~12~~ 14 wherein the step of forwarding comprises:

establishing an open communication session from the acceleration device to ~~with the~~ selected server, and

mapping the decrypted packet data to ~~the~~ an open communication~~[[s]]~~ session established with the selected server.

Claim 18 (Currently Amended): The method of claim 17 wherein the open communication~~[[s]]~~ session is established via a secure network.

Claim 19 (Currently Amended): The method of claim 12 wherein the step of receiving comprises:

receiving ~~SSL~~ encrypted data having a length greater than a TCP segment carrying said data; and

wherein said step of decrypting comprises:

buffering the ~~SSL~~ encrypted data in a memory buffer in the ~~SSL accelerator~~ acceleration device, the buffer having a length equivalent to the block cipher size necessary to perform the cipher; and

decrypting the buffered segment of the received ~~SSL~~ encrypted data to provide decrypted application data.

Claim 20 (Currently Amended): The method of claim 19 further including the step of authenticating the data on receipt of a final TCP segment on a packet level without processing the application data with an application layer of a TCP/IP stack.

Claim 21 (Original): The method of claim 19 further including the step of generating an alert if said step of authenticating results in a failure.

Claim 22 (New) The device of claim 1, wherein the device comprises a network router.

Claim 23 (New) The method of claim 12, wherein decrypting data packets comprises decrypting the data packets at a packet level of a TCP/IP stack.

Claim 24 (New) The method of claim 12, wherein decrypting data packets comprises:

decrypting the data packets to extract a secure record,

decrypting application data from the secure record, and

authenticating the application data without processing the application data with an application layer of a TCP/IP stack.

Claim 25 (New):      A system comprising:

- a client device;
- a plurality of server devices; and
- an intermediate device coupled between the client devices and the server devices,

wherein the intermediate device intercepts a request from the client device for a secure communication session, and

wherein, in response to the request, the intermediate device establishes a secure communication session with the client device, selects one of the server devices based on resource loading experienced by the server devices, and establishes a non-secure communication session with the selected server device.

Claim 26 (New):      The system of claim 25, wherein the intermediate device receives encrypted data from the client device via the secure communication session, decrypts the data and forwards the decrypted data to the selected server device via the non-secure communication session.

Claim 27 (New):      The system of claim 25, wherein the intermediate device receives unencrypted data from the selected server device via the non-secure communication session, encrypts the data and forwards the encrypted data to the client device via the secure communication session.

Claim 28 (New):      The system of claim 25, wherein the intermediate device comprises a network router.